

FIG. 1A

X⁰¹---⁰²--- Y

FIG. 1B

V2.03R

FIG. 2A

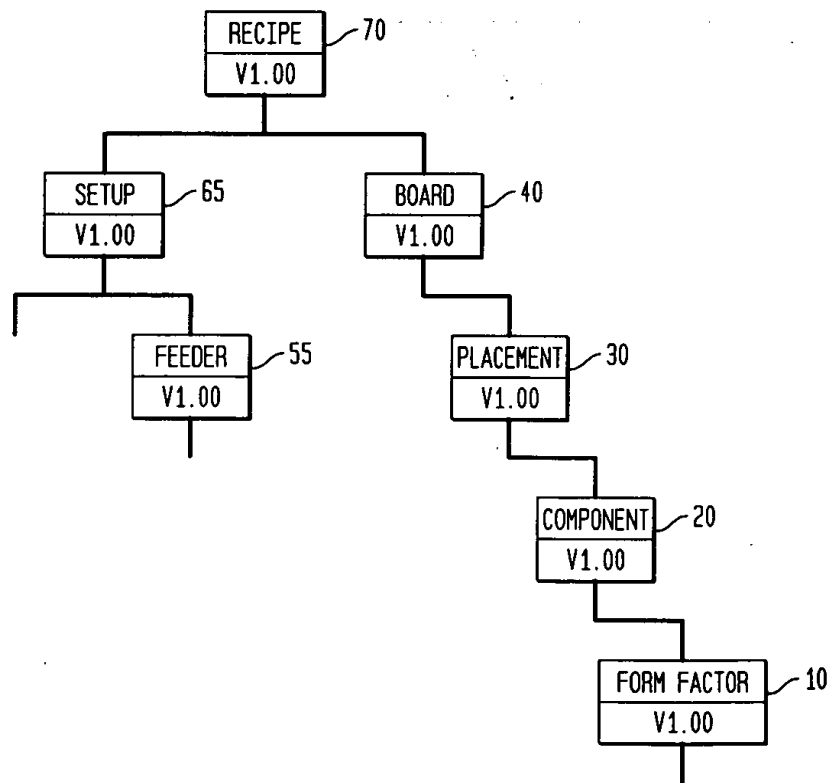


FIG. 2B

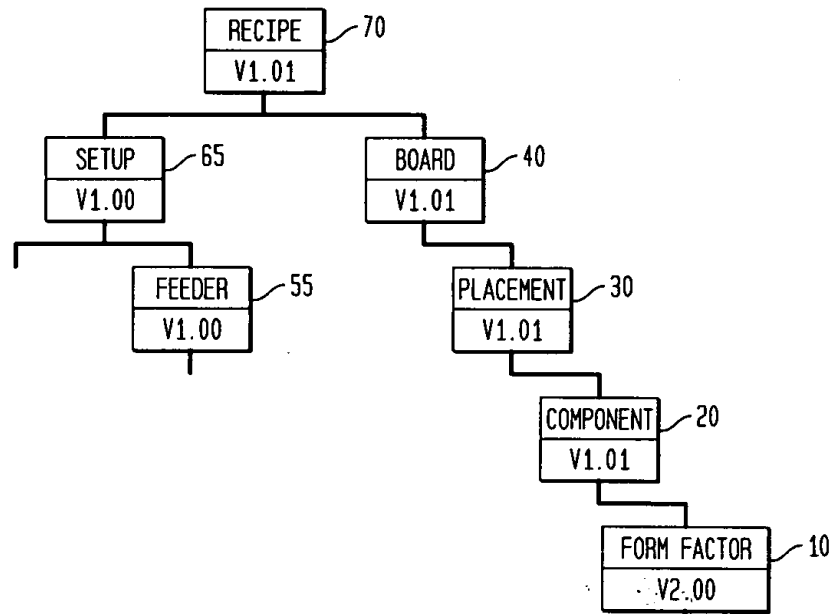
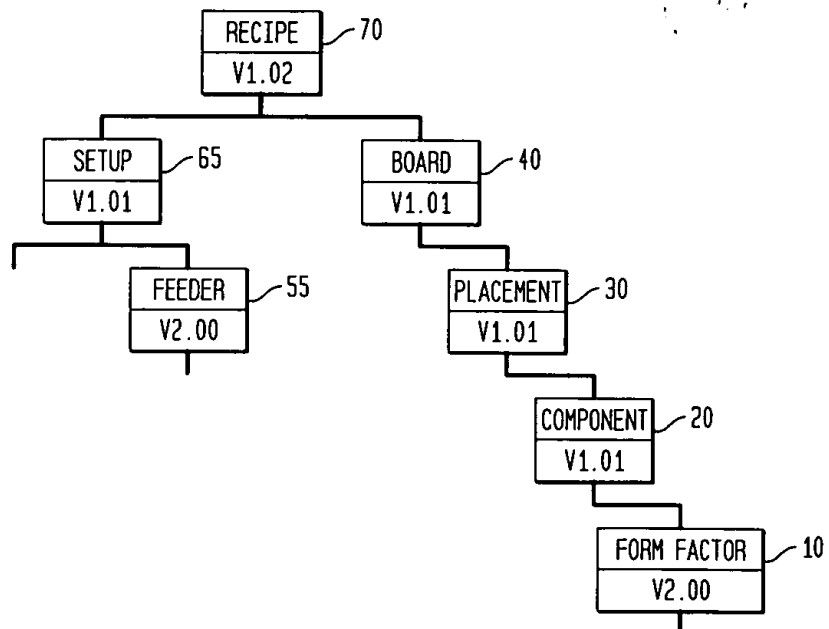


FIG. 2C



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FIG. 3

Event	User	Action	Object	Name	Version
1	Eng/Op	Programs a board	Recipe-1	Board	V1.00
2	Eng/Op	Modifies the same board	.	.	.
3	Eng/Op	Downloads Recipe-2 for Smartphone line	Recipe-1 Recipe-2	Board SPLine	.
4	LINE...	Runs board & requests validation	.	.	.
5	Eng/Op	Checks board & finds error	Recipe-1	Board	.
6	Eng/Op	Corrects program	.	.	.
7	Eng/Op	Downloads recipe	Recipe-1 Recipe-2	Board SPLine	.
8	LINE...	Runs board & requests validation	.	.	.
9	Eng/Op	Checks board and Releases it	Recipe-1 Recipe-2	Board SPLine	V1.00R V1.00R
10	At a later time, Eng/Op wants to modify sub-object SOT23		Package Form	SOT 23	V1.00R
11	Eng/Op	Modifies SOT23	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00 V1.01 V1.01
12	Eng/Op	Downloads Recipe-2 and runs board	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00 V1.01 V1.01
13	LINE...	Runs board & requests release of Recipe-1/2 (line/board)	.	.	.
14	Eng/Op	Checks pkg. & validates it, which is equivalent to releasing it for a single line.	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01R V1.01R
15	At a later time, Eng/Op downloads program		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01R V1.01R
16	LINE...	Runs board with no modifications	.	.	.
17	At a later time, Eng/Op downloads a different recipe (3) with the same SOT 23 as modified earlier in V1.01.		Recipe-3	Pocket PC	V1.00R
18	Eng/Op	finds problem and differently modifies SOT23 again	Recipe-3 Pkg. Form2	Pck. PC SOT 23	V1.01 V3.0
19	Eng/Op	downloads program to line	.	.	.
20	LINE...	Runs board & requests release	.	.	.
21	Eng/Op	Checks board and Releases it	Recipe-3 Pkg. Form2	Pck. PC SOT 23	V1.01R V3.0R
22	SYSTEM	Automatically updates recipes at the Enterprise level	Pkg. Form Recipe-1 Recipe-3	SOT 23 Board Pck. PC	V3.00R V1.02R V1.02R

FIG. 4

Step	User	Action	Object	Name	Version
23	Engineer	Programs a board	Recipe-1	Board	V1.00
24	Engineer	Modifies the same board			
25	Engineer	Downloads Recipe-2 for Smartphone line	Recipe-1 Recipe-2	Board SPLine	
26	LINE...	Runs board & asks Operator to validate recipe/board			
27	Operator	Checks board & finds error	Recipe-1	Board	
28	Operator	Corrects program			
29	Operator	Downloads recipe & runs board	Recipe-1 Recipe-2	Board SPLine	
30	LINE...	Runs board & asks Operator to validate recipe/board			
31	Operator	Checks board and validates it	Recipe-1 Recipe-2	Board SPLine	V1.00V V1.00V
32		At a later time, Operator finds some issues on SOT23	Package Form	SOT 23	V1.00R
33	Operator	Modifies SOT23	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00 V1.01 V1.01
34	Operator	Downloads recipe for Smartphone Line	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00 V1.01 V1.01
35	LINE...	Runs board & requests release			
36	Operator	Checks board and Validates it	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00V V1.01V V1.01V
37	Engineer	informed of modification			
38	Engineer	approves modification & Releases SOT23	Package Form	SOT 23	V2.00R
39	Operator	Downloads to different line Released objects are also released on a different line, validated objects have to be validated again	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01 V1.01
40	LINE 2	Runs board and asks operator to validate recipe/board			
41	Operator	checks program and validates it	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01V V1.01V
42	Engineer	checks program and releases it	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01R V1.01R
43	Operator	Downloads program to a third line	Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01R V1.01R
44	LINE 3	Runs board since it is a released program			

FIG. 5

